

Name: _____

p1029: Box multiplication of linear binomials (v18)

Example

Use the box method to multiply $(6x + 3)$ and $(2x + 4)$.

*	6x	3	
2x	$12x^2$	6x	$12x^2 + 6x + 24x + 12$
4	24x	12	Combine like terms.
			$12x^2 + 30x + 12$

ANSWER: $12x^2 + 30x + 12$

Question 1

Use the box method to multiply $(3x + 2)$ and $(5x + 9)$.

*	3x	2	
5x	$15x^2$	10x	
9	27x	18	

ANSWER: $15x^2 + 37x + 18$

Question 2

Use the box method to multiply $(7x - 2)$ and $(5x + 4)$.

*	7x	-2
5x	$35x^2$	-10x
4	28x	-8

ANSWER: $35x^2 + 18x - 8$

Question 3

Use the box method to multiply $(2x + 7)$ and $(-5x - 9)$.

*	2x	7
-5x	$-10x^2$	-35x
-9	-18x	-63

ANSWER: $-10x^2 - 53x - 63$